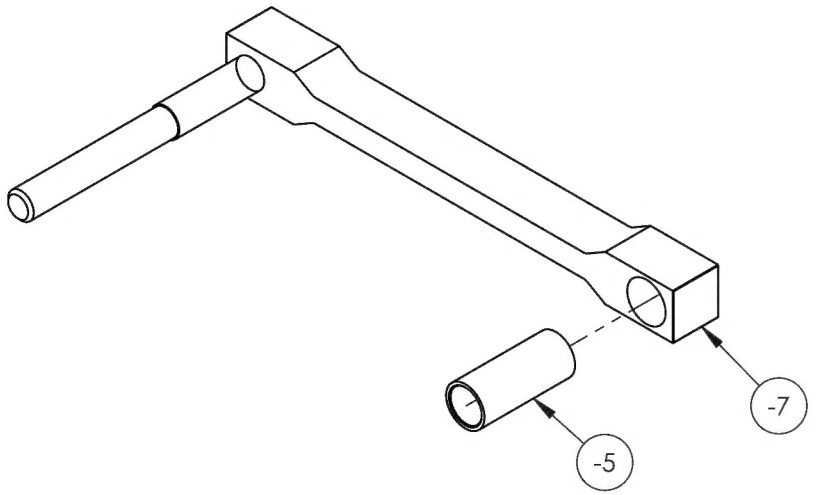
REVISIONS

| REV | ECR | DESCRIPTION | DATE | INITIAL | APPROVED |
|---|---|---|---|---|---|
| 1 | | **-1** CH'D HOLE FROM Ø1.25 MADE REF. DIM P.F. -2, CH'D Ø1.70 TO REF. DIM P.F. -5. **-2** CH'D O.D. FROM Ø1.25. | 10/10/2011 | RJC | GE |
| 2 | | **-1** ADDED SIDE VIEW AND CONTROL TOLERANCES TO (Ø1.240) 7 (Ø1.70) DIMS. **-2** CH'D DIM FROM Ø1.242 +.000/-.001. **-5** ADDED CONTROL TOLERANCES TO Ø1.70 DIM. | 5/9/2012 | RJC | GE |
| 3 | | **-2** ADDED TOTAL RUNOUT CONTROL. **-5** CH'D FINISH WAS BLACK ZINC IS NONE. | 5/6/2014 | DPD | GE |
| 4 | 17-0012 | UPDATED TO NEW DRAFTING STANDARD. CH'D TITLE WAS ENGINE ALIGNMENT TOOL MODEL 330 IS ENGINE ALIGNMENT TOOL. ADDED USED ON MODEL 330. **-1** CH'D DIM WAS Ø1.240 +.001/-.000 // Ø .001 A IS Ø1.2406/1.2400 (P.F. -2) // Ø .001 A WAS Ø1.700 +.001/-.000 IS Ø1.700 +.001/-.000 (S.F. -5), WAS 3.000 TYP. IS 4X 3.00. **-2** CH'D DIM WAS Ø1.240 +.0024/+.0018 ↗ .001 IS Ø1.2413/1.2409 (P.F. -1) ↗ .001 A. ADDED DATUM A. **-5** CH'D DIM WAS Ø1.700 -.0010/-.0016 IS Ø1.6990/1.6984 (S.F. -1). **-7** CH'D NOTE 1 WAS MASK THIS AREA BEFORE FINISHING TOOL IS DO NOT POWDER COAT THIS AREA. | 4/14/2017 | RJC | JAG |




| ASSY QTY | ASSY QTY | B/O | Part # | UNIT QTY | Description | Material | B/O INFORMATION OR SPECIFICATIONS | PG. |
|---|---|---|---|---|---|---|---|---|
| | 1 | | -1 | | BAR | 6061 | | 3 |
| | 1 | | -2 | | BAR | 6061 | | 4 |
| | | | -5 | 1 | TUBE | 304 S.S. | | 5 |
| | X | | -7 | 1 | BAR ASSEMBLY | | | 2 |
| | ASSY -7 | | | | | | | |

DART AEROSPACE

TITLE: ENGINE ALIGNMENT TOOL

DWG NO. 269T3303 REV 4

| | |
|---|---|
| MAT'L | |
| HEAT TREAT | |
| FINISH | |
| SPEC | |
| DRAWN BY: | RJC 04/17/2017 |
| CHECKED: | DD 04/17/2017 |
| OPPS APPR: | AA 05/05/2017 |
| QA APPR: | JL 05/10/2017 |
| APPROVED: | |

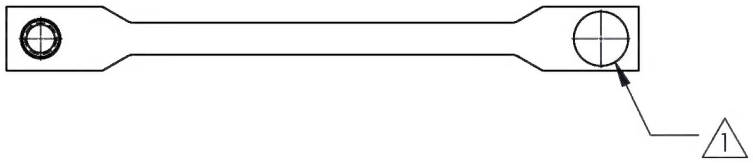
UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
.XXX ± .005 FRACTIONS ± 1/8
.XX ± .01 ANGLES ±.5°
.X ± .1 SURFACES = 125√

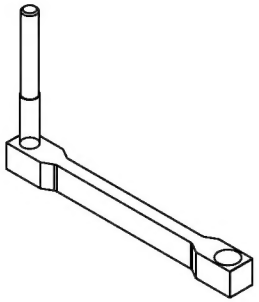
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R
2. DIMENSIONAL LIMITS APPLY AFTER PLATING
3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009

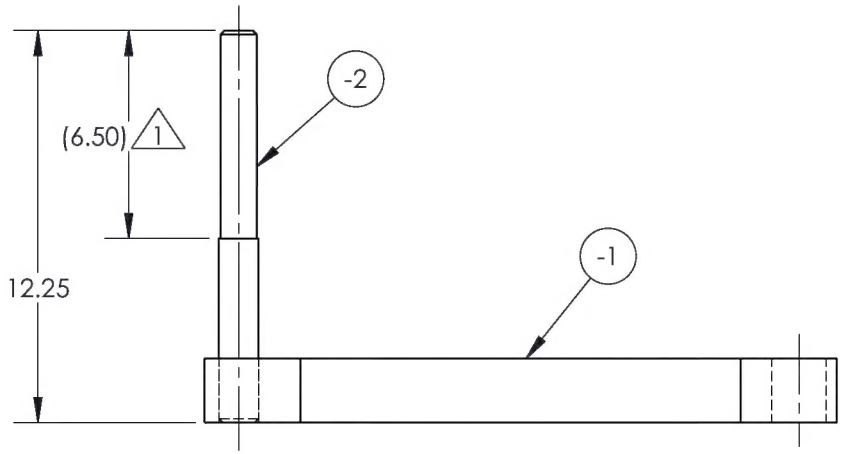
USED ON MODEL: SCHWEIZER 330

SCALE 1:6 DATE 4/17/2017 SHEET 1 OF 5

| REVISIONS | | | | | |
|---|---|---|---|---|---|
| REV | ECR | DESCRIPTION | DATE | INITIAL | APPROVED |
| 4 | 17-0012 | **-7** CH'D NOTE 1 WAS MASK THIS AREA BEFORE FINISHING TOOL IS DO NOT POWDER COAT THIS AREA. | 4/14/2017 | RJC | JAG |






-7

BAR ASSEMBLY

NOTE:

1 DO NOT POWDER COAT THIS AREA.

DART AEROSPACE

TITLE: ENGINE ALIGNMENT TOOL

DWG NO. 269T3303-7 REV. 4

| | |
|---|---|
| MAT'L | |
| HEAT TREAT | |
| FINISH | POWDER COAT YELLOW |
| SPEC | FED #13538 |
| DRAWN BY: | RJC 04/17/2017 |
| CHECKED: | DD 04/17/2017 |
| OPPS APPR: | AA 05/05/2017 |
| QA APPR: | JL 05/10/2017 |
| APPROVED: | |

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
.XXX ± .010 FRACTIONS ± 1/8
.XX ± .03 ANGLES ±1°
.X ± .1 SURFACES = 125

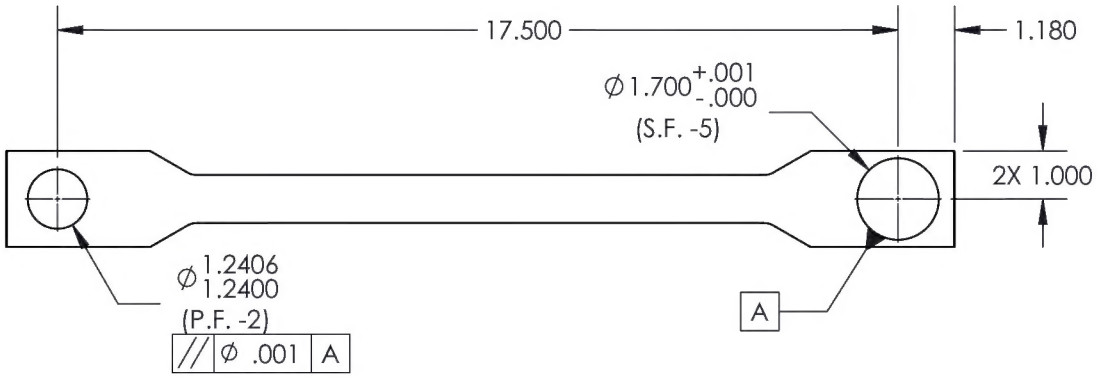
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R
2. DIMENSIONAL LIMITS APPLY AFTER PLATING
3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009

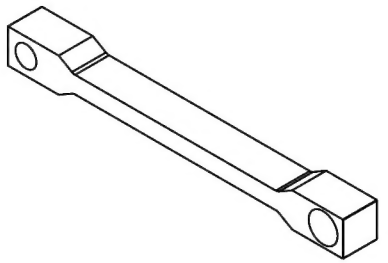
USED ON MODEL: SCHWEIZER 330

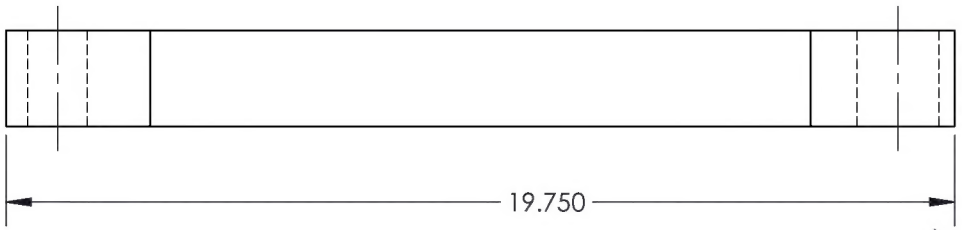
SCALE 1:6 | DATE 4/17/2017 | SHEET 2 OF 5

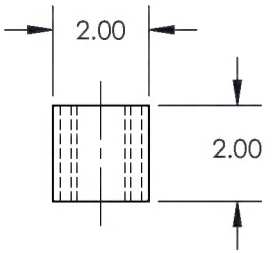
REVISIONS

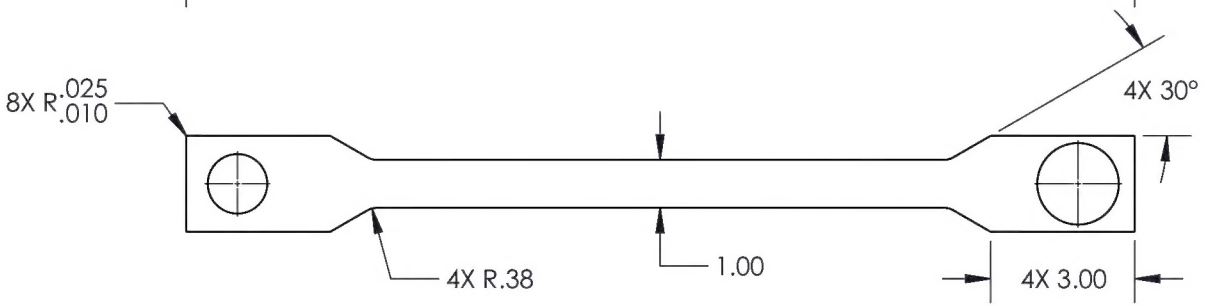
| REV | ECR | DESCRIPTION | DATE | INITIAL | APPROVED |
|---|---|---|---|---|---|
| 1 | | **-1** CH'D HOLE FROM Ø1.25 MADE REF. DIM P.F. -2, CH'D Ø1.70 TO REF. DIM P.F. -5. | 10/10/2011 | RJC | GE |
| 2 | | **-1** ADDED SIDE VIEW AND CONTROL TOLERANCES TO (Ø1.240) 7 (Ø1.70) DIMS. | 5/9/2012 | RJC | GE |
| 4 | 17-0012 | **-1** CH'D DIM WAS Ø1.240 +.001/-.000 // Ø .001 A IS Ø1.2406/1.2400 (P.F. -2) // Ø .001 A WAS Ø1.700 +.001/-.000 IS Ø1.700 +.001/-.000 (S.F. -5), WAS 3.000 TYP. IS 4X 3.00. | 4/14/2017 | RJC | JAG |






-1

BAR

DART AEROSPACE

TITLE: ENGINE ALIGNMENT TOOL

DWG NO. 269T3303-1 REV 4

| | |
|---|---|
| MAT'L | 6061 |
| HEAT TREAT | |
| FINISH | SEE -7 |
| SPEC | |
| DRAWN BY: | RJC 04/17/2017 |
| CHECKED: | DD 04/17/2017 |
| OPPS APPR: | AA 05/05/2017 |
| QA APPR: | JL 05/10/2017 |
| APPROVED: | |

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
.XXX ± .005 FRACTIONS ± 1/8
.XX ± .01 ANGLES ±.5°
.X ± .1 SURFACES = 125

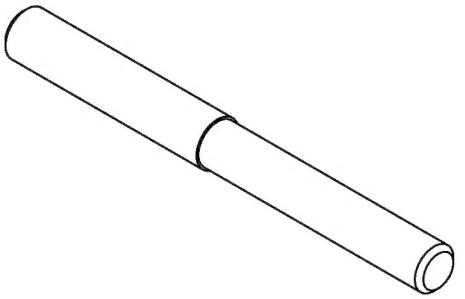
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R
2. DIMENSIONAL LIMITS APPLY AFTER PLATING
3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009

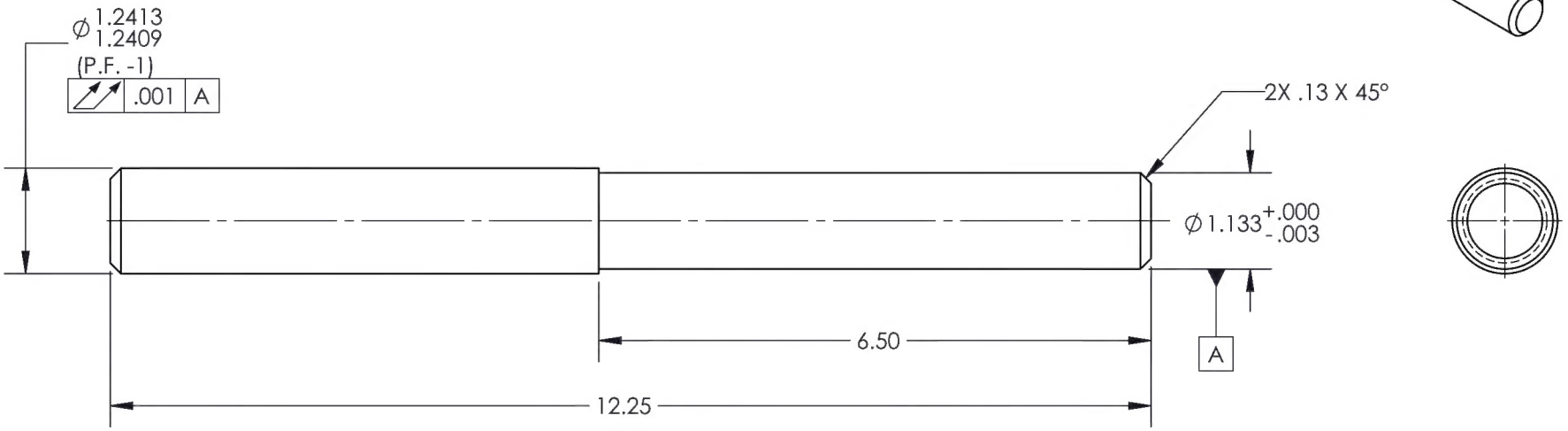
USED ON MODEL: SCHWEIZER 330

SCALE 1:4 DATE 4/17/2017 SHEET 3 OF 5

REVISIONS

| REV | ECR | DESCRIPTION | DATE | INITIAL | APPROVED |
|---|---|---|---|---|---|
| 1 | | **-2** CH'D O.D. FROM Ø1.25. | 10/10/2011 | RJC | GE |
| 2 | | **-2** CH'D DIM FROM Ø1.242 +.000/-.001. | 5/9/2012 | RJC | GE |
| 3 | | **-2** ADDED TOTAL RUNOUT CONTROL. | 5/6/2014 | DPD | GE |
| 4 | 17-0012 | **-2** CH'D DIM WAS Ø1.240 +.0024/+.0018 ⌰ .001 IS Ø1.2413/1.2409 (P.F. -1) ⌰ .001 A ADDED DATUM A. | 4/14/2017 | RJC | JAG |






-2

BAR

DART AEROSPACE

TITLE: ENGINE ALIGNMENT TOOL

DWG NO. 269T3303-2 REV 4

| | |
|---|---|
| MAT'L | 6061 |
| HEAT TREAT | |
| FINISH | SEE -7 |
| SPEC | |
| DRAWN BY: | RJC 04/17/2017 |
| CHECKED: | DD 04/17/2017 |
| OPPS APPR: | AA 05/05/2017 |
| QA APPR: | JL 05/10/2017 |
| APPROVED: | |

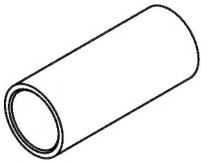
UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
.XXX ± .005 FRACTIONS ± 1/8
.XX ± .01 ANGLES ±.5°
.X ± .1 SURFACES = 125

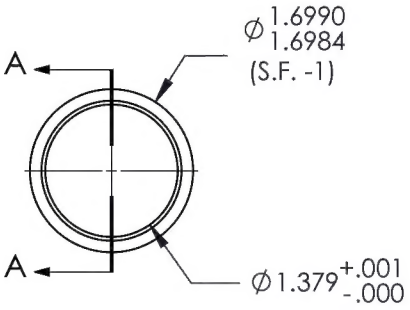
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R
2. DIMENSIONAL LIMITS APPLY AFTER PLATING
3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009

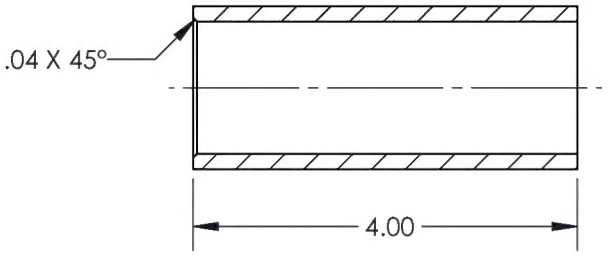
USED ON MODEL: SCHWEIZER 330

SCALE 1:2 DATE 4/17/2017 SHEET 4 OF 5

| REVISIONS | | | | | |
|---|---|---|---|---|---|
| REV | ECR | DESCRIPTION | DATE | INITIAL | APPROVED |
| 2 | | **-5** ADDED CONTROL TOLERANCES TO Ø1.70 DIM. | 5/9/2012 | RJC | GE |
| 3 | | **-5** CH'D FINISH WAS BLACK ZINC IS NONE. | 5/6/2014 | DPD | GE |
| 4 | 17-0012 | **-5** CH'D DIM WAS Ø1.700 -.0010/-.0016 IS Ø1.6990/1.6984 (S.F. -1). | 4/14/2017 | RJC | JAG |






SECTION A-A

-5

TUBE

DART AEROSPACE

TITLE: ENGINE ALIGNMENT TOOL

DWG NO. 269T3303-5 REV 4

MAT'L 304 S.S.
HEAT TREAT
FINISH
SPEC

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
.XXX ± .005 FRACTIONS ± 1/8
.XX ± .01 ANGLES ±.5°
.X ± .1 SURFACES = 125
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R
2. DIMENSIONAL LIMITS APPLY AFTER PLATING
3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009

| | |
|---|---|
| DRAWN BY: | RJC 04/17/2017 |
| CHECKED: | DD 04/17/2017 |
| OPPS APPR: | AA 05/05/2017 |
| QA APPR: | JL 05/10/2017 |
| APPROVED: | |

USED ON MODEL: SCHWEIZER 330

SCALE 1:2 DATE 4/17/2017 SHEET 5 OF 5